



production or any post-production costs, including costs of lifting, gathering, dehydration, compression, separation, delivery, transportation, manufacture, processing, treating or marketing, or for construction, operation or depreciation of any plant or other facility or equipment for processing or treating oil or gas produced from the leased premises or lands pooled therewith. In no event shall Lessor receive a price less than Lessee in sales to non-affiliates. It is the intent of the parties that the provisions of this section are to be fully effective and enforceable and are not to be construed as "surplusage" under the principles set forth in Heritage Resources v. NationsBank, 939 S.W.2d 118 (Tex. 1997).

As used herein, "affiliate" means (i) a corporation, joint venture, partnership or other entity that owns more than ten percent (10%) of the outstanding voting interest of Lessee or in which Lessee owns more than ten percent (10%) of the outstanding voting interest; or (ii) a corporation, joint venture, partnership or other entity in which, together with Lessee more than ten percent (10%) of the outstanding voting interest of both the Lessee and the other corporation, joint venture partnership or other entity is owned or controlled by the same person or group of persons.

Lessee must disburse or cause to be disbursed to Lessor its royalty on production from a particular well not later than one hundred twenty (120) days after the end of the month following first delivery of gas from the well into the pipeline. Thereafter, Lessee must disburse or cause to be disbursed to Lessor by the last day of each month its royalty on production for which Lessee received payment in the preceding month, but in no event shall royalty be paid more than sixty (60) days after the last day of the month of production. If not paid when due, Lessor's royalty shall bear interest at the maximum lawful rate from due date until paid, which amount Lessee agrees to pay. Acceptance by Lessor of royalties that are past due shall not act as a waiver or estoppel of its right to receive interest due thereon unless Lessor expressly so provides in writing signed by Lessor.

The receipt by Lessee, or Lessee's operator, from a purchaser or a pipeline company of proceeds of production for distribution to Lessor will not result in Lessee, or Lessee's operator, acquiring legal or equitable title to those proceeds, but Lessee, or Lessee's operator, will at all times hold the proceeds in trust for the benefit of Lessor. Notwithstanding the insolvency, bankruptcy, or other business failure of a purchaser of production from Said Land or pipeline company transporting production from Said Land, Lessee will remain liable for payment to Lessor for, and agrees to pay Lessor all royalties due Lessor together with interest if not timely paid. Lessor retains the right to terminate the Lease for failure to pay royalties, after a period of written notice and opportunity to cure which shall not exceed sixty (60) days.

Gas produced from Said Land or pooled unit that Said Land is included therewith shall not be commingled with gas produced from any other lands prior to the point where the gas produced from this Lease passes through the meter which will measure the gas for calculating the payment made by the purchaser of gas production.

6. Shut-in Royalty. If at the end of the primary term or any time thereafter one or more wells on the leased premises or lands pooled therewith are capable of producing oil or gas or other substances covered hereby in paying quantities, but such well or wells are either shut-in or production therefrom is not being sold by Lessee, such well or wells shall nevertheless be deemed to be producing in paying quantities for the purpose of maintaining this Lease. A well that has been drilled but not fraced shall be deemed incapable of producing in paying quantities. If for a period of ninety (90) consecutive days such well or wells are shut-in or production therefrom is not being sold by Lessee, then Lessee shall pay shut-in royalty of twenty five dollars (\$25.00) per acre then covered by this Lease on or before the end of said 90-day period and thereafter on or before each anniversary of the end of said 90-day period while the well or wells are shut-in or production therefrom is not being sold by Lessee; provided, however, that if this Lease is otherwise being maintained by operations, or if production is being sold by Lessee from another well or wells on the leased premises or lands pooled therewith, no shut-in royalty shall be due until the end of the 90-day period next following cessation of such operations or production. Notwithstanding anything to the contrary herein, it is expressly understood and agreed that after the expiration of the primary term, Lessee shall not have the right to continue this Lease in force by payment of shut-in royalty for more than one single period of up to two (2) consecutive years.

7. Payments. All shut-in or other royalty payments under this Lease shall be paid or tendered to Lessor at the address in Section 1, or at such address or to Lessor's credit at such depository institution as Lessor may provide written notice of from time to time. All payments or tenders may be made by check or electronic transfer.

8. Continuous Drilling Obligations. If Lessee drills a well which is incapable of producing in paying quantities (a "dry hole") on the Leased Premises or lands pooled therewith, or if all production (whether or not in paying quantities) permanently ceases from any cause, including a revision of unit boundaries pursuant to the provisions of Section 9 or the action of any governmental authority, then in the event this Lease is not otherwise being maintained in force it shall nevertheless remain in force if Lessee commences operations for reworking an existing well or for drilling an additional well or for otherwise obtaining or restoring production on the Leased Premises or lands pooled therewith within one hundred twenty (120) days after completion of operations on such dry hole or within one hundred twenty (120) days after such cessation of all production. If at the end of the primary term, or at any time thereafter, this Lease is not otherwise being maintained in force but Lessee is then engaged in drilling, reworking or any other operations reasonably calculated to obtain or restore production therefrom, this Lease shall remain in force so long as any one or more of such operations are prosecuted with no cessation of more than one hundred twenty (120) consecutive days, and if any such operations results in the production of oil or gas or other substances covered hereby, as long thereafter as there is production in paying quantities from the Leased Premises or lands pooled therewith. After completion of a well capable of producing in paying quantities hereunder, Lessee shall drill such additional wells on the Leased Premises or lands pooled therewith as a reasonably prudent operator would drill under the same or similar circumstances (a) to develop the Leased Premises as to formations then capable of producing in paying quantities on the Leased Premises or lands pooled therewith, or (b) to protect the Leased Premises from uncompensated drainage by any well or wells located on other lands not pooled therewith. There shall be no covenant to drill exploratory wells or any additional wells except as expressly provided herein.

9. Pooling. Lessee shall have the right but not the obligation to pool all or any part of the Leased Premises or interests therein with any other lands or interests, and as to any or all substances covered by this lease, either before or after the commencement of production, whenever Lessee deems it necessary or proper to do so in order to prudently develop or operate the Leased Premises, whether or not similar pooling authority exists with respect to such other lands or interests; provided, however, that the entire Leased Premises covered by this Lease, shall be included in any unit

created pursuant to the pooling authority granted herein. The unit formed by such pooling for an oil well which is not a horizontal completion shall not exceed eighty (80) acres plus a maximum acreage tolerance of ten percent (10%) and for a gas well or a horizontal completion shall not exceed six hundred forty (640) acres plus a maximum acreage tolerance of ten percent (10%). For the purpose of the foregoing, the terms "oil well" and "gas well" shall have the meanings prescribed by applicable law or the appropriate governmental authority, or if no definition is so prescribed, "oil well" means a well with an initial gas-oil ratio of less than 100,000 cubic feet per barrel and "gas well" means a well with an initial gas-oil ratio of 100,000 cubic feet or more per barrel, based on 24-hour production test conducted under normal producing conditions using standard lease separator facilities or equivalent testing equipment and "horizontal completion" means a well in which the horizontal component of the gross interval in the reservoir exceeds the vertical component thereof. In exercising its pooling rights hereunder, within one hundred twenty (120) days of first production, Lessee shall file of record a written declaration describing the unit and stating the effective date of pooling which may be retroactive to first production. In the event Lessor's acreage is included in a well, all of Lessor's acreage shall be included. Production, drilling or reworking operations anywhere on a unit which includes the leased premises shall be treated as if it were production, drilling or reworking operations on the leased premises, except that the production on which Lessor's royalty is calculated shall be that proportion of the total unit production which the surface acres covered by this Lease and included in the unit bears to the total number of surface acres included in the unit.

Pooling in one or more instances shall not exhaust Lessee's pooling rights hereunder, and Lessee shall have the recurring right but not the obligation to revise any unit formed hereunder by expansion or contraction or both, either before or after commencement of production, in order to conform to the well spacing or density pattern prescribed or permitted by the governmental authority having jurisdiction, or to conform to any productive acreage determination made by such governmental authority. In making such a revision, Lessee shall file of record a written declaration describing the revised unit and stating the effective date of revision. If the leased premises are included in or excluded from the unit by virtue of such revision, the proportion of unit production on which royalties are payable hereunder shall thereafter be adjusted accordingly. In the absence of production in paying quantities from a unit, or upon permanent cessation thereof, Lessee may terminate the unit by filing of record a written declaration describing the unit and stating the date of termination. Pooling hereunder shall not constitute a cross-conveyance of interests.

10. Assignment. The interest of either Lessor or Lessee hereunder may be assigned, devised or otherwise transferred in whole or in part, by area and/or by depth or zone, and the rights and obligations of the parties hereunder shall extend to their respective heirs, devisees, executors, administrators, successors and assigns; provided, however, if Lessee is to assign any part of this Lease to any third party other than Chesapeake Energy or a subsidiary or affiliate thereof, it shall give written notice and a copy of any assignment to the Lessor within sixty (60) days of assignment. No change in Lessor's ownership shall have the effect of reducing the rights or enlarging the obligations of Lessee hereunder, and no change in ownership shall be binding on Lessee until thirty (30) days after Lessee has been furnished the original or certified or duly authenticated copies of the documents establishing such change of ownership to the reasonable satisfaction of Lessee or until Lessor has satisfied the notification requirements contained in Lessee's usual form of division order. If Lessee transfers its interest hereunder in whole or in part, no assignment by Lessee will release Lessee of any liability, before or after the assignment, and Assignee is jointly and severally liable with Lessee for all Lease obligations.

11. Release and Vertical Pugh Clause. Lessee may, at any time and from time to time, deliver to Lessor a file of record written release of this Lease as to a full or undivided interest in all or any portion of the area covered by this Lease or any depths or zones thereunder, and shall thereupon be relieved of all obligations thereafter arising with respect to the interest so released. If Lessee releases all or an undivided interest in less than all of the area covered hereby, Lessee's obligation to pay or tender shut-in royalties shall be proportionately reduced in accordance with the net acreage interest retained hereunder. In any event, upon termination of this Lease, Lessee, its successors or assigns shall deliver to Lessor a recorded release within sixty (60) days as to such portion or portions of this Lease which have terminated under the terms of this Lease. Upon the expiration of the primary term of this Lease, upon the expiration of any extension or renewal of the primary term, or after cessation of operations as provided herein, whichever occurs last, this Lease shall terminate as to all rights lying below one hundred feet (100') below either (1) the deepest depth drilled in any well drilled on the leased premises or on lands pooled therewith or (2) the stratigraphic equivalent of the base of the deepest formation producing or capable of producing in any well drilled on the leased premises or on lands pooled therewith, whichever is the deepest; provided, however, if Lessee is then engaged in operations on the leased premises or on lands pooled therewith, this Lease shall remain in full force and effect as to all depths so long as no more than ninety (90) days elapse between operations.

12. No Surface Use. Notwithstanding anything to the contrary in this Lease, Lessee shall not enter upon the surface of, cross over, place any structure or building upon or conduct any operations (including but not limited to geophysical/seismic operations) on the Leased Premises or within six hundred feet (600') of the Leased Premises or any other residential structure located within the same subdivision or neighborhood addition as the Leased Premises. Lessee shall only develop the leased premises by pooling, as provided herein, or by directional or horizontal drilling commenced from a surface location on other lands. Notwithstanding anything to the contrary in the Lease, Lessee has no right to drill horizontally, vertically, or at an angle under the Leased Premises at any depth that is less than three hundred (300) feet below the surface. Lessee has no right to pipe, transmit, or transport gas under the Leased Premises at any depth that is less than three hundred (300) feet below the surface. Lessee shall make all reasonable efforts not to use residential or neighborhood streets or thoroughfares in developing the Leased Premises, any lands pooled therewith or otherwise.

13. Noise. Noise levels associated with Lessee's operations related to the drilling, completion and reworking of wells shall be kept to a reasonable minimum, taking into consideration reasonably available equipment and technology in the oil and gas industry, the level and nature of development and surface use elsewhere in the vicinity of Lessee's drill sites and the fact Lessee's operations are being conducted in or near an urban residential area. If Lessee utilizes any non-electric-powered equipment in its operations, Lessee shall take reasonable steps to muffle the sound therefrom by installing a noise suppression muffler or like equipment.

14. Regulatory Requirements and Force Majeure. Lessee's obligations under this Lease, whether express or implied, shall be subject to all applicable laws, rules, regulations and orders of any governmental authority having jurisdiction, including environmental regulations, setback requirements, restrictions on the drilling and production of wells, and the

price of oil, gas and other substances covered hereby. To the extent any such laws, rules, regulations or orders are less restrictive than the terms of this Lease, this Lease shall control. The breach of this paragraph will be considered a material breach of the Lease. When drilling, reworking, production or other operations are prevented or delayed by such laws, rules, regulations or orders, or by inability to obtain necessary permits, equipment, services, material, water, electricity, fuel, access or easements, or by fire, flood, adverse weather conditions, war, sabotage, rebellion, insurrection, riot, strike or labor disputes, or by inability to obtain a satisfactory market for production or failure of purchasers or carriers to take or transport such production, or by any other cause not reasonably within Lessee's control, this Lease shall not terminate because of such prevention or delay. Lessee shall not be liable for breach of any express or implied covenants of this Lease when drilling, production or other operations are so prevented, delayed or interrupted. Lessee shall take all reasonable actions to remove or end any cause of force majeure as soon as reasonably possible. In no event shall this Lease be perpetuated by an event of force majeure for a period of more than one (1) consecutive year or three (3) years of cumulative time. No obligation of Lessee to pay money that has accrued and was due before the Force Majeure event occurred under this lease will be excused or delayed by reason of such Force Majeure event.

15. Environmental Compliance. Lessee shall use the highest degree of care and all reasonable safeguards to prevent contamination or pollution of any environmental medium, including soil, surface waters, groundwater, sediments, and surface or subsurface strata, ambient air or any other environmental medium in, on, or under, Said Lands or lands pooled therewith, by any waste, pollutant, or contaminant. Lessee shall not bring or permit to remain on Said Lands or lands pooled therewith any asbestos containing materials, explosives, toxic materials, or substances regulated as hazardous wastes, hazardous materials, hazardous substances (as the term "Hazardous Substance" is defined in the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 42 U.S.C. Sections 9601, et seq.) or toxic substances under any federal, state or local law or regulation ("Hazardous Materials"), except ordinary products commonly used in connection with oil and gas exploration and development operations and stored in the usual manner and quantities. LESSEE'S VIOLATION OF THE FOREGOING PROHIBITION SHALL CONSTITUTE A MATERIAL BREACH AND DEFAULT HEREUNDER AND LESSEE SHALL INDEMNIFY, HOLD HARMLESS AND DEFEND LESSOR, ITS AGENTS, EMPLOYEES, TENANTS, GUESTS, INVITEES AND THEIR RESPECTIVE SUCCESSORS AND ASSIGNS FROM AND AGAINST ANY CLAIMS, DAMAGES, JUDGMENTS, PENALTIES, LIABILITIES, AND COSTS (INCLUDING REASONABLE ATTORNEYS FEES AND COURT COSTS) CAUSED BY OR ARISING OUT OF (1) A VIOLATION OF THE FOREGOING PROHIBITION OR (2) THE PRESENCE, RELEASE OR DISPOSAL OF ANY HAZARDOUS MATERIALS ON, UNDER OR ABOUT SAID LANDS OR LANDS POOLED THEREWITH DURING LESSEE'S OCCUPANCY OR CONTROL OF SAME. LESSEE SHALL CLEAN UP, REMOVE, REMEDY, AND REPAIR ANY SOIL OR GROUND WATER CONTAMINATION AND DAMAGE CAUSED BY THE PRESENCE OR RELEASE OF ANY HAZARDOUS MATERIALS IN, ON, UNDER OR ABOUT SAID LANDS OR LANDS POOLED THEREWITH DURING LESSEE'S OCCUPANCY OF SAME IN CONFORMANCE WITH THE REQUIREMENTS OF APPLICABLE LAW. THIS INDEMNIFICATION AND ASSUMPTION SHALL APPLY, BUT IS NOT LIMITED TO, LIABILITY FOR RESPONSE ACTIONS UNDERTAKEN PURSUANT TO CERCLA OR ANY OTHER ENVIRONMENTAL LAW OR REGULATION. LESSEE SHALL IMMEDIATELY GIVE LESSOR WRITTEN NOTICE OF ANY BREACH OR SUSPECTED BREACH OF THIS PARAGRAPH, UPON LEARNING OF THE PRESENCE OF ANY HAZARDOUS MATERIALS, OR UPON RECEIVING A NOTICE PERTAINING TO HAZARDOUS MATERIALS WHICH MAY AFFECT SAID LANDS OR LANDS POOLED THEREWITH. THE OBLIGATIONS OF LESSEE HEREUNDER SHALL SURVIVE THE EXPIRATION OR EARLIER TERMINATION FOR ANY REASON, OF THIS LEASE.

16. Indemnity. LESSEE AGREES TO INDEMNIFY AND HOLD HARMLESS LESSOR, AND LESSOR'S REPRESENTATIVES, SUCCESSORS, AND ASSIGNS AGAINST ALL EXPENSES, CLAIMS, DEMANDS, LIABILITIES, AND CAUSES OF ACTION OF ANY NATURE FOR INJURY TO OR DEATH OF PERSONS AND LOSS OR DAMAGE TO PROPERTY, INCLUDING, WITHOUT LIMITATION, ATTORNEY'S FEES, EXPERT FEES, AND COURT COSTS, CAUSED BY LESSEE'S OPERATIONS ON SAID LAND OR LANDS POOLED THEREWITH OR LESSEE'S MARKETING OF PRODUCTION FROM THE LAND OR ANY VIOLATION OF ANY ENVIRONMENTAL REQUIREMENTS BY LESSEE. AS USED IN THIS PARAGRAPH, THE TERM "LESSEE" INCLUDES LESSEE, ITS AGENTS, EMPLOYEES, SERVANTS, CONTRACTORS, AND ANY OTHER PERSON ACTING UNDER ITS DIRECTION AND CONTROL, AND ITS INDEPENDENT CONTRACTORS.

17. Notices. All notices required or contemplated by this Lease shall be directed to the party being notified at the address identified in Section 1, unless notice of another address has been provided in writing. All such notices shall be made by registered or certified mail, return receipt requested, unless another means of delivery is expressly stated.

18. No Warranty of Title. Lessor makes no warranty of any kind with respect to title to the surface or mineral estate in the leased premises or any portion of or interest therein. All warranties that might arise by common law or by statute, including but not limited to Section 5.023 of the Texas Property Code (or its successor), are excluded. By acceptance of this Lease, Lessee acknowledges that it has been given full opportunity to investigate and has conducted sufficient investigation to satisfy itself as to the title to the leased premises. Lessee assumes all risk of title failures.

19. Curing Defaults. Should Lessee at any time fail to comply with its obligations hereunder regarding construction, maintenance, or repair, Lessor shall have the right, after giving 30 days prior written notice to Lessee, to do or have done whatever is necessary to fulfill the obligations to its satisfaction, and Lessee shall be liable to Lessor for the reasonable and necessary expenses thus incurred by Lessor, to be paid within 30 days after Lessor shall have furnished Lessee an itemized written statement of the expenses.

20. Venue and Legal Fees. Venue for any dispute arising under this Lease shall lie in Tarrant County, Texas, where all obligations under this Lease are performable. At any time that any obligation of the Lessee to make a payment shall not be complied with in accordance with the terms of the Lease, it is agreed and understood that Lessee will pay to Lessor interest thereon at the highest lawful rate allowed to be charged to Lessee by Lessor under the then existing Statutes of the State of Texas. In addition, in the event of the breach of any provision of the Lease, Lessee shall pay to Lessor all costs and expenses reasonably incurred including reasonable attorney's fees and costs of court incurred by Lessor for the enforcement of the provisions of this Lease. It is agreed and understood that time is of the essence in the performing of each responsibility under the terms of this Lease.



IN WITNESS WHEREOF, this Lease is executed to be effective as of the date last written above, but upon execution shall be binding on each signatory and the signatory's heirs, devisees, executors, administrators, successors and assigns, whether or not this Lease has been executed by all parties hereinabove named as Lessor.

LESSEE: Paloma Barnett, LLC

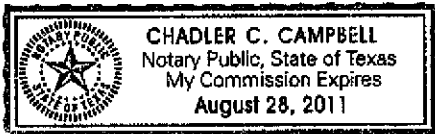
By: [Signature]  
Printed Name: Bryan R. Gaudin  
Title: Attorney-in-fact

LESSOR

Nancy L. Miller  
Nancy L. Miller

STATE OF Texas (INDIVIDUAL ACKNOWLEDGEMENT)  
COUNTY OF Tarrant

This instrument was acknowledged before me on the 01 day of April, 2008, by  
Nancy L. Miller



[Signature]  
Notary Public, State of Texas  
Notary's Name Printed: Chadler C. Campbell  
Notary's Commission Expires: August 28, 2011

STATE OF TEXAS (CORPORATE ACKNOWLEDGEMENT)  
COUNTY OF TARRANT

This instrument was acknowledged before me on the 1<sup>st</sup> day of April, 2008, by  
Bryan R. Gaudin, the Attorney in Fact (Office) of Paloma Barnett LLC  
on behalf of said corporation.  
limited liability  
company



Alice G. Parker  
Notary Public, State of Texas  
Notary's Name Printed: ALICE G. PARKER  
Notary's Commission Expires: May 26, 2010